



OIKE

RAW SEQUENCE LISTING

DATE: 01/30/2002

PATENT APPLICATION: US/10/044,807

TIME: 15:44:46

Input Set : A:\LEX-0298-USA SEQLIST.txt

Output Set: N:\CRF3\01302002\J044807.raw

ENTERED

4 <110> APPLICANT: Yu, Xuanchuan
 5 Turner, C. Alexander Jr.
 7 <120> TITLE OF INVENTION: Novel Human Protease and Polynucleotides Encoding the Same
 9 <130> FILE REFERENCE: LEX-0298-USA
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/044,807
 C--> 11 <141> CURRENT FILING DATE: 2002-01-11
 11 <150> PRIOR APPLICATION NUMBER: US 60/261,684
 12 <151> PRIOR FILING DATE: 2001-01-12
 14 <160> NUMBER OF SEQ ID NOS: 2
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 5289
 20 <212> TYPE: DNA
 21 <213> ORGANISM: homo sapiens
 23 <400> SEQUENCE: 1
 24 atggaatgct gccgtcgggc aactcctggc acaactgotcc tctttctggc tttcctgctc 60
 25 ctgagttcca ggaccgcacg ctccgaggag gaccgggacg gcctatggga tgccctggggc 120
 26 ccatggagtg aatgctcacg cacctgcggg ggtggggcct cctactctct gaggcgctgc 180
 27 ctgagcagca agagctgtga aggaagaaat atccgataca gaacatgcag taatgtggac 240
 28 tgcccaccag aagcaggtga tttccgagct cagcaatgct cagctcataa tgatgtcaag 300
 29 caccatggcc agttttatga atggcttctt gtgtctaatg accctgacaa cccatgttca 360
 30 ctcaagtgcc aagccaaagg aacaacccctg gttgttgaaac tagcacctaa ggtcttagat 420
 31 ggtacgcggt gctatacaga atctttggat atgtgcatca gtggtttatg ccaaattgtt 480
 32 ggctgcgata accagctggg aagcaccgtc aaggaagata actgtggggg ctgcaacgga 540
 33 gatgggtcca cctgccgggt ggtccgaggg cagtataaat cccagctctc cgcaaccaa 600
 34 tcggatgata ctgtggttgc aattccctat ggaagtagac atattcgcct tgtcttaaaa 660
 35 ggtcctgata acttatactt ggaaaccaa accctccagg ggactaaagg tgaaaacagt 720
 36 ctcaagctcca caggaacttt ccttgtggac aattctagtg tggacttcca gaaatttcca 780
 37 gacaaagaga tactgagaat ggctggacca ctacagcag atttcattgt caagattcgt 840
 38 aactcgggct ccgctgacag tacagtccag ttcatcttct atcaacccat catccaccga 900
 39 tggagggaga cggatttctt tcttgtctca gcaacctgtg gaggagggtta tcagctgaca 960
 40 tcggctgagt gctacgatct gaggagcaac cgtgtggttg ctgaccaata ctgtcactat 1020
 41 taccagaga acatcaaacc caaacccaag cttcaggagt gcaacttggg tcttgttcca 1080
 42 gccagtgcg gatacaagca gatcatgcct tatgacctct accatcccct tctcgggtgg 1140
 43 gaggccaccc catggaccgc gtgctctctc tcgtgtgggg ggggcatcca gagccgggca 1200
 44 gtttctctgt tggaggagga catccagggg catgtcactt cagtgaaga gtggaaatgc 1260
 45 atgtacaccc ctaagatgcc catcgcgag ccctgcaaca ttttgactg ccctaaatgg 1320
 46 ctggcacagg agtgggtctc gtgcacagtg acatgtggcc agggcctcag ataccgtgtg 1380
 47 gtctcttgca tcgaccatcg aggaatgcac acaggaggct gttagccaaa aacaaagccc 1440
 48 cacataaaag aggaatgcat cgtacccact ccctgtata aacccaaaga gaaacttcca 1500
 49 gtgcaggcca agttgccatg gttcaaaca gctcaagagc tagaagaagg agctgctgtg 1560
 50 tcagaggagc cctcgttcat cccagaggcc tggtcggcct gcacagtcac ctgtggtgtg 1620
 51 gggaccagg tgcaatagt caggtgccag gtgctcctgt ctttctctca gtccgtggct 1680

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,807

DATE: 01/30/2002

TIME: 15:44:46

Input Set : A:\LEX-0298-USA SEQLIST.txt

Output Set: N:\CRF3\01302002\J044807.raw

52	gacctgccta	ttgacgagtg	tgaagggccc	aagccagcat	cccagcgtgc	ctgttatgca	1740
53	ggcccatgca	gcggggaaat	tctgagttc	aaccagacg	agacagatgg	gctctttggt	1800
54	ggcctgcagg	atttcgacga	gctgtatgac	tgggagtatg	aggggttcac	caagtgtctc	1860
55	gagtcctgtg	gaggaggtgt	ccaggaggct	gtggtgagct	gcttgaacaa	acagactcgg	1920
56	gagcctgctg	aggagaacct	gtgcgtgacc	agccgcgggc	ccccacagct	cctgaagtcc	1980
57	tgcaatttgg	atccctgccc	agcaaggtgg	gaaattggca	agtggagtcc	atgtagtctc	2040
58	acatgtgggg	tgcgcctaca	gaccagagac	gtcttctgca	gccacctgct	ttccagagag	2100
59	atgaatgaaa	cagtcacact	ggctgatgag	ctgtgtcgcc	agcccaagcc	cagcacggtg	2160
60	caagcttgta	accgctttta	ttgcccccca	gcctggtacc	ctgcacagtg	gcagccgtgt	2220
61	tccagaacgt	gtggcggggg	tgttcagaaa	cgtgagggtc	tttgcaagca	gcgcattggt	2280
62	gatggcagct	tcttgagact	tctgagacc	ttctgttcag	cttcaaaacc	tgctgccag	2340
63	caagcatgca	agaaagatga	ctgtcccagc	gagtggtctc	tctcagactg	gacagagtgt	2400
64	tccacaagct	gcggggaagg	cacccagact	cgaagcgcca	tttgccgaaa	gatgtgaaa	2460
65	accggcctct	caacggttgt	caattccacc	ctgtgcccg	ccctgccttt	ctcttctctc	2520
66	atcaggccct	gtatgctggc	aacctgtgca	aggcccgggc	ggccatccac	gaagcacagc	2580
67	ccgcacatcg	cggccgccag	gaaggtctac	atccagactc	gcaggcagag	gaagctgcac	2640
68	ttcgtggtgg	ggggtctcgc	ctacctgctc	cccaagacgg	cgggtggtgt	gcgctgccc	2700
69	gcgcgcagg	tccgcaagcc	cctcatcacc	tgggagaagg	acggccagca	cctcatcagc	2760
70	tgcagcacg	tcacggtggc	ccccttgggc	tatctcaaga	tccaccgctc	caagccctcg	2820
71	gatgcaggcg	ctacacactg	ctcagcgggc	cggcccgggg	agcactttgt	gattaagctc	2880
72	atcgggagca	accgcaagct	cgtggcccg	cccttgagcc	cgagaagtga	ggaagaggtg	2940
73	cttgccggga	ggaaggcg	cccgaaggag	gccctgcaga	cccacaaaca	ccagaacggg	3000
74	atcttctcca	acggcagcaa	ggcggagaag	cggggcctgg	ccgccaaacc	ggggagccgc	3060
75	tacgacgacc	tgtctcccg	gctgctggag	cagggcggct	ggcccgagga	gctgctggcc	3120
76	tctggtggag	cgcaggactc	cgcggaaagg	aacacgacct	cggaggagga	cccgggtgca	3180
77	gagcaagtgc	tctgcaacct	gcccttcacc	atggtgaccg	agcagcggcg	cctggacgac	3240
78	atcctgggga	acctctccca	gcagcccag	gagctgcgcg	acctctacag	caagcacctg	3300
79	gtggcccagc	tggcccagga	gatcttccgc	agccacctgg	agcaccagga	cacgtcctcg	3360
80	aagccctcgg	agcgcaggac	ttccccagtg	actctctcgc	ctcataaaca	cgtgtctggc	3420
81	ttcagcagct	ccctgcggac	ctcctccacc	ggggacggcg	ggggaggctc	tgaaggcca	3480
82	caccgcaagc	ccaccatcct	gcgcaagatc	tcagcggccc	agcagctctc	agcctcggag	3540
83	gtggtcaccc	acctggggca	gacggtggcc	ctggccagcg	ggacactgag	tgttcttctg	3600
84	cactgtgagg	ccatcgcca	cccaaggcct	accatcagct	gggccaggaa	tggagaagaa	3660
85	gttcagttca	gtgacaggat	tcttctacag	ccagatgatt	ccttacagat	cttggcacca	3720
86	gtggaagcag	atgtgggttt	ctacacttgc	aatgccacca	atgccttggg	atacactct	3780
87	gtctccattg	cgtcacatt	agcaggaaag	ccactagtga	aaacgtcacg	aatgacagtg	3840
88	atcaacacgg	agaagcctgc	agtcacagtc	gatataggaa	gcaccatcaa	aacagtgcag	3900
89	ggagtgaatg	tgacaatcaa	ctgccagggt	gcaggagtgc	ctgaagctga	agtcacttgg	3960
90	ttcaggaata	aaagcaaact	gggtctcccc	caccatctgc	acgaaggctc	cttgtctctc	4020
91	acaaacgtgt	cctcctcgga	tcagggcctg	tactcctgca	gggcggccaa	tcttcatgga	4080
92	gagctgactg	agagcaccca	gctgctgate	ctagatcccc	cccaagtccc	cacacagttg	4140
93	gaagacatca	gggccttgc	cgtgcacact	ggaccgaacc	ttccttcagt	gctgacgtct	4200
94	cctctgggaa	cacagctgg	cctggatcct	gggaattctg	ctctccttgg	ctgccccatc	4260
95	aaaggtcacc	ctgtccctaa	tatcacctgg	tttcatggtg	gtcagccaat	tgtcactgcc	4320
96	acaggactga	cgcacacat	cttggcagct	ggacagatcc	ttcaagttgc	aaaccttagc	4380
97	ggtgggtctc	aaggggaatt	cagctgcctt	gctcagaatg	aggcaggggt	gctcatgcag	4440
98	aaggcatctt	tagtgatcca	agattactgg	tgggtctgtg	acagactggc	aacctgctca	4500
99	gcctcctgtg	gtaaccgggg	ggttcagcag	ccccgcttga	ggtgcctgct	gaacagcacg	4560
100	gaggtcaacc	ctgcccactg	cgcagggaag	gttcgccctg	cgggtgcagcc	catcgctg	4620

RAW SEQUENCE LISTING

DATE: 01/30/2002

PATENT APPLICATION: US/10/044,807

TIME: 15:44:46

Input Set : A:\LEX-0298-USA SEQLIST.txt

Output Set: N:\CRF3\01302002\J044807.raw

```

101 aaccggagag actgcccttc tcggtggatg gtgacctcct ggtctgcctg taccgggagc 4680
102 tgtgggggag gtgtccagac ccgcaggggtg acctgtcaaa agctgaaagc ctctgggagc 4740
103 tccacccctg tgtccaatga catgtgcacc caggctcgcca agcggcctgt ggacaccagc 4800
104 gcctgtaacc agcagctgtg tgtggagtgg gccttctcca gctggggcca gtgcaatggg 4860
105 ccttgcatcg ggccctcacct agctgtgcaa cacagacaag tcttctgcca gacacgggat 4920
106 ggcatcacct taccatcaga gcagtgcagt gctcttccga ggccctgtgag caccagaac 4980
107 tgetggtcag aggctgcag tgtacactgg agagtcagcc tgtggaccct gtgcacagct 5040
108 acctgtggca actacggctt ccagtcccgg cgtgtggagt gtgtgcatgc ccgcaccaac 5100
109 aaggcagtgc ctgagcacct gtgctcctgg gggccccggc ctgccaactg gcagcgctgc 5160
110 aacatcaccc catgtgaaaa catggagtgc agagacacca ccagggtactg cgagaagggtg 5220
111 aaacagctga aactctgcca actcagccag tttaaatctc gctgctgtgg aacttgtggc 5280
112 aaagcgtga 5289
116 <210> SEQ ID NO: 2
117 <211> LENGTH: 1762
118 <212> TYPE: PRT
119 <213> ORGANISM: homo sapiens
121 <400> SEQUENCE: 2
122 Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu
123 1 5 10 15
124 Ala Phe Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg
125 20 25 30
126 Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr
127 35 40 45
128 Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
129 50 55 60
130 Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
131 65 70 75 80
132 Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
133 85 90 95
134 Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
135 100 105 110
136 Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
137 115 120 125
138 Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
139 130 135 140
140 Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
141 145 150 155 160
142 Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
143 165 170 175
144 Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
145 180 185 190
146 Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
147 195 200 205
148 Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His
149 210 215 220
150 Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser
151 225 230 235 240
152 Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe
153 245 250 255

```

RAW SEQUENCE LISTING

DATE: 01/30/2002

PATENT APPLICATION: US/10/044,807

TIME: 15:44:46

Input Set : A:\LEX-0298-USA SEQLIST.txt

Output Set: N:\CRF3\01302002\J044807.raw

```

154 Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr
155          260          265          270
156 Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr
157          275          280          285
158 Val Gln Phe Ile Phe Tyr Gln Pro Ile Ile His Arg Trp Arg Glu Thr
159          290          295          300
160 Asp Phe Phe Pro Cys Ser Ala Thr Cys Gly Gly Gly Tyr Gln Leu Thr
161 305          310          315          320
162 Ser Ala Glu Cys Tyr Asp Leu Arg Ser Asn Arg Val Val Ala Asp Gln
163          325          330          335
164 Tyr Cys His Tyr Tyr Pro Glu Asn Ile Lys Pro Lys Pro Lys Leu Gln
165          340          345          350
166 Glu Cys Asn Leu Asp Pro Cys Pro Ala Ser Asp Gly Tyr Lys Gln Ile
167          355          360          365
168 Met Pro Tyr Asp Leu Tyr His Pro Leu Pro Arg Trp Glu Ala Thr Pro
169          370          375          380
170 Trp Thr Ala Cys Ser Ser Ser Cys Gly Gly Gly Ile Gln Ser Arg Ala
171 385          390          395          400
172 Val Ser Cys Val Glu Asp Ile Gln Gly His Val Thr Ser Val Glu
173          405          410          415
174 Glu Trp Lys Cys Met Tyr Thr Pro Lys Met Pro Ile Ala Gln Pro Cys
175          420          425          430
176 Asn Ile Phe Asp Cys Pro Lys Trp Leu Ala Gln Glu Trp Ser Pro Cys
177          435          440          445
178 Thr Val Thr Cys Gly Gln Gly Leu Arg Tyr Arg Val Val Leu Cys Ile
179          450          455          460
180 Asp His Arg Gly Met His Thr Gly Gly Cys Ser Pro Lys Thr Lys Pro
181 465          470          475          480
182 His Ile Lys Glu Glu Cys Ile Val Pro Thr Pro Cys Tyr Lys Pro Lys
183          485          490          495
184 Glu Lys Leu Pro Val Glu Ala Lys Leu Pro Trp Phe Lys Gln Ala Gln
185          500          505          510
186 Glu Leu Glu Glu Gly Ala Ala Val Ser Glu Glu Pro Ser Phe Ile Pro
187          515          520          525
188 Glu Ala Trp Ser Ala Cys Thr Val Thr Cys Gly Val Gly Thr Gln Val
189          530          535          540
190 Arg Ile Val Arg Cys Gln Val Leu Leu Ser Phe Ser Gln Ser Val Ala
191 545          550          555          560
192 Asp Leu Pro Ile Asp Glu Cys Glu Gly Pro Lys Pro Ala Ser Gln Arg
193          565          570          575
194 Ala Cys Tyr Ala Gly Pro Cys Ser Gly Glu Ile Pro Glu Phe Asn Pro
195          580          585          590
196 Asp Glu Thr Asp Gly Leu Phe Gly Gly Leu Gln Asp Phe Asp Glu Leu
197          595          600          605
198 Tyr Asp Trp Glu Tyr Glu Gly Phe Thr Lys Cys Ser Glu Ser Cys Gly
199          610          615          620
200 Gly Gly Val Gln Glu Ala Val Val Ser Cys Leu Asn Lys Gln Thr Arg
201 625          630          635          640
202 Glu Pro Ala Glu Glu Asn Leu Cys Val Thr Ser Arg Arg Pro Pro Gln

```

RAW SEQUENCE LISTING

DATE: 01/30/2002

PATENT APPLICATION: US/10/044,807

TIME: 15:44:46

Input Set : A:\LEX-0298-USA SEQLIST.txt

Output Set: N:\CRF3\01302002\J044807.raw

203					645					650					655	
204	Leu	Leu	Lys	Ser	Cys	Asn	Leu	Asp	Pro	Cys	Pro	Ala	Arg	Trp	Glu	Ile
205					660					665					670	
206	Gly	Lys	Trp	Ser	Pro	Cys	Ser	Leu	Thr	Cys	Gly	Val	Gly	Leu	Gln	Thr
207					675					680					685	
208	Arg	Asp	Val	Phe	Cys	Ser	His	Leu	Leu	Ser	Arg	Glu	Met	Asn	Glu	Thr
209					690					695					700	
210	Val	Ile	Leu	Ala	Asp	Glu	Leu	Cys	Arg	Gln	Pro	Lys	Pro	Ser	Thr	Val
211	705					710					715				720	
212	Gln	Ala	Cys	Asn	Arg	Phe	Asn	Cys	Pro	Pro	Ala	Trp	Tyr	Pro	Ala	Gln
213					725					730					735	
214	Trp	Gln	Pro	Cys	Ser	Arg	Thr	Cys	Gly	Gly	Gly	Val	Gln	Lys	Arg	Glu
215					740					745					750	
216	Val	Leu	Cys	Lys	Gln	Arg	Met	Ala	Asp	Gly	Ser	Phe	Leu	Glu	Leu	Pro
217					755					760					765	
218	Glu	Thr	Phe	Cys	Ser	Ala	Ser	Lys	Pro	Ala	Cys	Gln	Gln	Ala	Cys	Lys
219					770					775					780	
220	Lys	Asp	Asp	Cys	Pro	Ser	Glu	Trp	Leu	Leu	Ser	Asp	Trp	Thr	Glu	Cys
221	785					790					795				800	
222	Ser	Thr	Ser	Cys	Gly	Glu	Gly	Thr	Gln	Thr	Arg	Ser	Ala	Ile	Cys	Arg
223					805					810					815	
224	Lys	Met	Leu	Lys	Thr	Gly	Leu	Ser	Thr	Val	Val	Asn	Ser	Thr	Leu	Cys
225					820					825					830	
226	Pro	Pro	Leu	Pro	Phe	Ser	Ser	Ser	Ile	Arg	Pro	Cys	Met	Leu	Ala	Thr
227					835					840					845	
228	Cys	Ala	Arg	Pro	Gly	Arg	Pro	Ser	Thr	Lys	His	Ser	Pro	His	Ile	Ala
229					850					855					860	
230	Ala	Ala	Arg	Lys	Val	Tyr	Ile	Gln	Thr	Arg	Arg	Gln	Arg	Lys	Leu	His
231	865					870					875				880	
232	Phe	Val	Val	Gly	Gly	Phe	Ala	Tyr	Leu	Leu	Pro	Lys	Thr	Ala	Val	Val
233					885					890					895	
234	Leu	Arg	Cys	Pro	Ala	Arg	Arg	Val	Arg	Lys	Pro	Leu	Ile	Thr	Trp	Glu
235					900					905					910	
236	Lys	Asp	Gly	Gln	His	Leu	Ile	Ser	Ser	Thr	His	Val	Thr	Val	Ala	Pro
237					915					920					925	
238	Phe	Gly	Tyr	Leu	Lys	Ile	His	Arg	Leu	Lys	Pro	Ser	Asp	Ala	Gly	Val
239					930					935					940	
240	Tyr	Thr	Cys	Ser	Ala	Gly	Pro	Ala	Arg	Glu	His	Phe	Val	Ile	Lys	Leu
241	945					950					955				960	
242	Ile	Gly	Gly	Asn	Arg	Lys	Leu	Val	Ala	Arg	Pro	Leu	Ser	Pro	Arg	Ser
243					965					970					975	
244	Glu	Glu	Glu	Val	Leu	Ala	Gly	Arg	Lys	Gly	Gly	Pro	Lys	Glu	Ala	Leu
245					980					985					990	
246	Gln	Thr	His	Lys	His	Gln	Asn	Gly	Ile	Phe	Ser	Asn	Gly	Ser	Lys	Ala
247					995					1000					1005	
248	Glu	Lys	Arg	Gly	Leu	Ala	Ala	Asn	Pro	Gly	Ser	Arg	Tyr	Asp	Asp	Leu
249					1010					1015					1020	
250	Val	Ser	Arg	Leu	Leu	Glu	Gln	Gly	Gly	Trp	Pro	Gly	Glu	Leu	Leu	Ala
251	1025					1030					1035				1040	

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/044,807

DATE: 01/30/2002

TIME: 15:44:47

Input Set : A:\LEX-0298-USA SEQLIST.txt

Output Set: N:\CRF3\01302002\J044807.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date